

PANEL A					PANEL B											
ECG POINTS (3% LV each)					% INFARCT IN 12 LV SEGS											
Lead	Criteria	Pts/Lead	ea	Max	L A D			RCA			LCX			Post-lat		
		crit	Pt		Ant-sept	sup		Inf			Post-lat					
		1			1	2	3	4	5	6	7	8	9	10	11	12
I Sup-api	Q>=30ms	1						1	1							
	R/Q<=1	1		2				2	1					1		
	R<=0.2mV	1														
II Inf-api	Q>=40ms	2		2						1	2	2			1	
	Q>=30ms	1								1	1				1	
AVL Sup	Q>=30ms	1		2												
	R/Q<=1	1						2	1							
		1						1	2							
AVF Inf	Q>=50ms	3								3	2	2		1	1	
	Q>=40ms	2								2	2	2				
	Q>=30ms	1		5						2	1					
	R/Q<=1	2								2	3				1	
	R/Q<=2	1								1	2					
V1 Ant	Any	1		2	1	2										
	Post R/S>=1	1														
	R>=50ms	2		4						1	1		1	2		
	R>=40ms	1								1			1	1		
	Q&S<=0.3mV	1								1			1	1		
V2 Ant	Any Q	1														
	R<=10ms	1		1				2	1							
	R<=0.1mV	1														
V2 Post	R/S>=1.5	1								1			1	1		
	R>=80ms	2		4						1	1		1	2	1	
	R>=50ms	1								1			1	1		
	Q&S<=0.4mV	1												1	2	
V3 Ant	Any Q	1														
	R<=20ms	1		1	2	1										
	R<=0.2mV	1														
	RV3<=RV1	1														
V4 Ant	Q>=20ms	1			1	1	1									
	apical R/Q<=0.25	2			3	2	1									
	R/S<=0.25	2														
	R/Q<=0.5	1		3												
	R/S<=0.5	1			1	1	1									
	R<=0.6mV	1														
V5 Apical	Q>=30ms	1			1	1	1									
	R/Q<=0.5	2			1	1	2	2								
	R/S<=0.5	2														
	R/Q<=1	1		3												
	R/S<=1	1			1		1	1								
	R<=0.6mV	1														
V6 Post	Q>=30ms	1														
	apical R/Q<=1	2				1		1		1						
	R/S<=1	2						2		3						
	R/Q<=2	1		3												
	R/S<=2	1							1	2						
	R<=0.6mV	1														
TOTALS	Points->															
				%LVI>												

DATA TABLE I

If > 1 criteria in bracket met, select 1 with most points  
 If > 1 criteria in bracket has same point, score only once  
 Age normalize amplitude criteria to age 50, increasing them by  
 1%/yr for ages 20-49 and decreasing them 1%/yr for 750yrs.  
 For Females further decrease all amplitude criteria by 20% → 20%  
 and decrease all duration criteria by 10%

PANEL B

Lead	Criteria	Pts ea crit	Lead Max Pt	L A D Ant-sept,sup	RCA Inf	LCX Post-lat
V8R Post	Q>=70ms Q>=60ms	2 1		<del>0 1 2 3 4 5 6 7 8 9 10 11</del>	<del>0 1 2 3 4 5 6 7 8 9 10 11</del>	<del>0 1 2 3 4 5 6 7 8 9 10 11</del>
V4R Ant Add Post	any Q R>=36ms	1 2	1	1 2		2 3 1 1 2
<del>delete</del>	<del>R/S&gt;=4</del>	<del>3</del>	<del>4</del>			<del>2 4 3</del>
	R/S>=2	2				1 3 2
	R/S>=1	1				1 2
V8 Post	Q>=46ms Q>=36ms R/Q>=2 R/Q>=4	2 1 2 1				3 3 2 1 1 3 2 2 1
TOTALS	Points->					
			%LVI>			

## DATA TABLE II

[illegible]

PANEL A				PANEL B											
ECG POINTS (3% LV each)				% INFARCT IN 12 LV SEGS											
With RBBB		Pts	Lead	L A D						RCA			L C X		
Lead	Criteria	ea	Max	Ant-sept,-sup						Inf			Post-lat		
		crit	Pl	1	2	3	4	5	6	7	8	9	10	11	12
I Sup	api Q>=30ms R/Q<=1 R<=0.2mV	1	2				1	1					1		
II Inf	api Q>=40ms Q>=30ms	2	2							1	2	2			1
AVL Sup	Q>=30ms R/Q<=1	1	2				2	1							
AVF Inf	Q>=50ms Q>=40ms Q>=30ms R/Q<=1 R/Q<=2	3 2 1 2 1								3	2	2		1	1
V1 Ant	Any Q	1	2	1	2										
<del>V1 Ant</del>	<del>Post R/S&gt;=1 R&gt;=50ms R&gt;=40ms Q&amp;S&lt;=0.3mV</del>	<del>1 2 1 1</del>	<del>4</del>							1	1		1	2	
V2 Ant	Any Q R<=10ms R<=0.1mV	1 1 1	1	2	1										
<del>V2 Ant</del>	<del>Post R/S&gt;=1.5 R&gt;=60ms R&gt;=50ms Q&amp;S&lt;=0.4mV</del>	<del>1 2 1 1</del>	<del>4</del>								1		1	1	
V3 Ant	Any Q R<=20ms R<=0.2mV RV3<=RV1	1 1 1 1	1	2	1										
V4 Ant-apical	Q>=20ms R/Q<=0.25 R/S<=0.25 R/Q<=0.5 R/S<=0.5 R<=0.6mV	1 2 2 1 1 1	3	1	1	1									
V5 Apical	Q>=30ms R/Q<=0.5 R/S<=0.5 R/Q<=1 R/S<=1 R<=0.6mV	1 2 2 1 1 1	3	1	1		1								
V6 Post-apical	Q>=30ms R/Q<=1 R/S<=1 R/Q<=2 R/S<=2 R<=0.6mV	1 2 2 1 1 1	3			1		1		1	2		1	3	
TOTALS Points->															
				%LVI>											

### DATA TABLE III

If > 1 criteria in bracket met, select 1 with most points  
If > 1 criterif a in bracket has same point, score only once  
Ane normalize amplitude criteria to aue 50 increasing them by

PANEL A				PANEL B											
ECG POINTS (3% LV each)				% INFARCT IN 12 LV SEGS											
With LAFB		Pts	Lead	L A D			RCA			L C X					
Lead	Criteria	ea	Max	Ant-sept,-sup			Inf			Post-lat					
		crit	Pt	1	2	3	4	5	6	7	8	9	10	11	12
I Sup-api	Q>=30ms	1					1	1					1		
	R/Q<=1	1	2					2	1						
	R<=0.2mV	1													
II Inf-api	Q>=40ms	2	2							1	2	2			1
	Q>=30ms	1									1	1			1
AVL Sup	Q>=40ms	1	2					2	1						
	R/Q<=1	1						1	2						
AVF Inf	Q>=50ms	3								3	2	2		1	1
	Q>=40ms	2								2	2	2			
	Q>=30ms	1	5								2	1			
	R/Q<=1	2									2	3			1
	R/Q<=2	1									1	2			
V1 Ant	Any Q	1	2		1	2									
Post	R/S>=1	1											1	2	
	R>=50ms	2	4							1	1		2	1	1
	R>=40ms	1								1			1	1	
	Q&S<=0.3mV	1								1			1	1	
V2 Ant	Any Q	1													
Post	R/S>=1.5	1									1		1	1	
	R>=60ms	2	4							1	1		1	2	1
	R>=50ms	1								1			1	1	
	Q&S<=0.4mV	1											1	2	
V3 Ant	Any Q	1													
	R<=20ms	1	1		2	1									
	R<=0.2mV	1													
	RV3<=RV1	1													
V4 Ant-apical	Q>=20ms	1		1	1	1									
	R/Q<=0.25	2		3	2	1									
	R/S<=0.25	2													
	R/Q<=0.5	1	3		1	1	1								
	R/S<=0.5	1													
	R<=0.6mV	1													
V5 Apical	Q>=30ms	1		1	1	1									
	R/Q<=0.5	2		1	1	2	2								
	R/S<=0.5	2													
	R/Q<=1	1	3												
	R/S<=1	1						1	1						
	R<=0.6mV	1													
V6 Post-apical	Q>=30ms	1					1			1			1		
	R/Q<=1	2					1			2			3		
	R/S<=1	2													
	R/Q<=2	1	3												
	R/S<=2	1								1			2		
	R<=0.6mV	1													
TOTALS Points->															
			%LVI>												

DATA TABLE IV

PANEL A					PANEL B											
ECG POINTS (3% LV each)					% INFARCT IN 12 LV SEGS											
With LVH ± LAFB		Pts ea	Lead Max		L A D			RCA			L C X					
Lead	Criteria	crit	Pt		Ant-sept,-sup			Inf			Post-lat					
					1	2	3	4	5	6	7	8	9	10	11	12
I Sup-apical	Q>=30ms R/Q<=1 R<=0.2mV	1 1 1	2					1	1					1		
II Inf-apical	Q>=50ms * Q>=40ms	2 1	2								1	2	2		1	
AVL Sup	Q>=40ms R/Q<=1	1 1	2					2	1							
AVF Inf	* Q>=60ms * Q>=50ms * Q>=40ms R/Q<=1 R/Q<=2	3 2 1 2 1	5								3	2	2		1	1
V1 Ant	* Any QR Post R/S>=1 * R>=56ms * R>=48ms Q&S<=0.3mV	1 1 2 1 1	2											1	2	
V2 Ant	* Any QR RV2<RV1 Post R/S>=1.5 * R>=66ms * R>=58ms Q&S<=0.4mV	1 1 2 1 1 1	4								1	1		2	1	1
V3 Ant	* Any QR * R<=10ms * R<=0.1mV RV3<RV1	1 1 1 1	1													
V4 Ant-apical	Q>=20ms R/Q<=0.25 R/S<=0.25 R/Q<=0.5 R/S<=0.5 R<=0.6mV	1 2 2 1 1 1	3		1	1		1								
V5 Apical	Q>=30ms R/Q<=0.5 R/S<=0.5 R/Q<=1 R/S<=1 R<=0.6mV	1 2 2 1 1 1	3		1	1		1								
V6 Post-apical	Q>=30ms R/Q<=1 R/S<=1 R/Q<=2 R/S<=2 R<=0.6mV	1 2 2 1 1 1	3					1			1			1		
TOTALS Points->																
%LV1>																

### DATA TABLE IV

Detection Criterial Threshold:

Criteria Thresholds (in uV and ms)	Threshold	RBBB	LAFB	RVH	LVH	Points	Location	Notes
I Q Dur >=	34					2	A	1
I R/Q <=	3					2	A	
III Q Dur >= OR	32				32	1	I	
II R/Q <=	4					1	I	
aVL Q >= OR	36				36	1	A	
aVL Q Dur w/ neg   aVL T >=	32				32	1	A	
aVF Q Dur >= OR	34				34	2	I	2
aVF Q Dur w/ neg aVF T >=	24				24	-		3
aVF R/Q <=	1.8					1	I	
V1 Q Dur >	0					1	A	
V1 R/S >= OR	1.6	X		X		1	P	
V1 R Dur >=	50	X		X		1	P	
V1 Q & S <=	200	X		X		1	P	
V2 Ant Q Dur >	0				QandR	1	A	4
V2 Post R/S >=	5	X		X		1	P	
V2 Post R Dur >=	58	X		X		1	P	
V3 Q Dur >=	24					1	A	
V4 Q Dur >=	36					1	A	
V4 R/Q <= OR	3					1	A	
V4 R/S <= OR	0.3					1	A	
V4 R Amp <=	400				600	1	A	
V5 Q Dur >=	32					2	A	
V5 R/Q <= OR	5					2	A	
V5 R/S <= OR	0.7				1.5	1	A	
V5 R Amp <=	400				500	1	A	
V6 Q Dur >=	32					1	P	
V6 R/S <=	2				1.5	1	P	
[Points for 3 Inf neg Ts OR						2	I	
Points for 2 Inf neg Ts]						1	I	
Points for 2 Ant neg Ts						1	A	
Points for 1 aVL neg Ts						1	A	
Points for V2T-V6T >=	600				X	1	P	
[V2R dur <= AND	20				X	-	-	
V2R+V3R dur <=	40				X	1	A	5
[Anterior Duration <= AND	18					1	A	6
Anterior Distance <= AND	400					-	-	
Max Posterior Amplitude >=	50					-	-	
[Superior Distance >= AND	300					1	I	7
Max Superior Amplitude >=	100					-	-	
[Anterior/Posterior Ratio >= AND	2	X		X		1	P	8
Max Anterior Amplitude >=	500					-	-	

NOTES:

1. aVL Q Threshold changed based on presence on negative T in aVL AND I (Tamp <= T amp Threshold).
2. aVF Q scores 2 points if II Q >= 26mS, otherwise aVF Q scores 1 point.
3. aVF Q Threshold changed based on presence on negative T in aVF (aVF T amp <= T amp Threshold).
4. With LVH present, a Q followed by an R must be present to score points (Q only does not score).
5. One point for: [V2R <= 20mS] AND [(V2R+V3R) <= 40mS].
6. One point for: [Anterior Duration <= 18] AND [Anterior Distance <= 400]
7. One point for: [Superior Distance >= 300] AND [Max Superior Amp >= 100]
8. One point for: [Max Anterior Amp >= 500] AND [(Max Anterior Amp)/Max Posterior Amp] >= 2]
9. An X indicates the criteria is disabled if the given confounder is true.

DATA TABLE VI

60 yr. old male

Criteria Thresholds (in uV and ms)		RBBB	LAFB	RVH	LVH
I Q Dur >=	34				
II R/Q <=	-1				
I R Amp <=	-1				
II R/Q <=	-1				
II Q Dur >=	1000				
II Q Dur >=	32				32
aVL Q >=	34				34
aVL Q Qual Dur >=	30				30
aVL R/Q <=	-1				
aVF Q Dur >=	1000				
aVF Q Dur >=	1000				
aVF Q Dur >=	34				34
aVF Q Qual Dur >=	24				24
aVF R/Q <=	-1				
aVF R/Q <=	1.8				
V1 Q Dur >	0				
V1 R/S >=	1.6	X		X	
V1 R Dur >=	1000				
V1 R Dur >=	54	X		X	
V1 Q & S <=	200	X		X	
V2 Ant Q Dur >	0				QandR
V2 Ant R Dur <=	-1				X
V2 Ant R Amp <=	-1				X
V2 Post R/S >=	5	X		X	
V2 Post R Dur >=	1000				
V2 Post R Dur >=	58	X		X	
V2 Q & S <=	-1	X		X	
V3 Q Dur >=	1000				
V3 R Dur <=	-1				
V3 R Amp <=	-1				
V3 Q Dur >=	24				
V3 R Dur <=	-1				
V3 R Amp <=	-1				
V4 Q Dur >=	1000				
V4 R/Q <=	-1				
V4 R/S <=	-1				
V4 R/Q <=	3				
V4 R/S <=	0.3				
V4 R Amp <=	400				600
V5 Q Dur >=	34				
V5 R/Q <=	-1				
V5 R/S <=	-1				
V5 R/Q <=	5				
V5 R/S <=	0.7				1.5
V5 R Amp <=	370				500
V6 Q Dur >=	34				
V6 R/Q <=	-1				
V6 R/S <=	-1				
V6 R/Q <=	-1				
V6 R/S <=	1.8				1.5
V6 R Amp <=	-1				-1
T amp <=	-75				
Points for 3 Inf neg Ts	1				
Points for 2 Inf neg Ts	1				
Points for 2 Ant neg Ts	1				
V2R dur <=	20				
V2R+V3R dur <=	40				X
Anterior Duration <= (Ant)	15				
Superior Distance >=	450				

DATA TABLE VII

ECG Points										% LV Infarct in 12 Segments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Lead	Criteria	Nominal Threshold	Confounder Adjustments				Amp or Dur Adjustment	Notes	Pts each	Lead Max Points	LAD						RCA			LCA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
			RBBB	RVH	LAFB	LVH					Ant-sept	sup	1	2	3	4	5	6	7	8	9	10	11	12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Lead I	Q dur >=	34mS	-	-	-	-	Yes		1	2	1	1	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

## DATA TABLE VIII



[illegible]

**RED:** Set's limits on the allowable RAG adjustment range for the given criteria.

**GREEN:** Prominent Initial Superior Forces only score in no Q detected in leads II or aVF.

Prominent Anterior Forces - only score if no Posterior points in V1 or V2 detected.  
 Prominent Anterior Superior Forces - only score if no Q detected in leads II or aVL.  
 Prominent Anterior Superior Forces - only score if no Q detected in leads II or aVL.  
 BLUE:

**DEOL:** Full Inherent Anterior Forces - only score if no Posterior points in V1 or V2 detected.  
V2 Tamp - V6 Tamp - only score if no Posterior points detected in V1 and V2 and Prominent Anterior Forces are not detected.

**PURPLE:**  
Minimal Initial Anterior Forces - only score if (V2 R amp <=, V2 R dur <=, V3 R amp <=, V3 R dur <=) are not detected.  
VZ lamp - VZ lamp - only score if NO Fosterior points detected in V1 and V2 and V3 and V4 and V5 and V6 and V7 and V8 and V9 and V10 and V11 and V12 and V13 and V14 and V15 and V16 and V17 and V18 and V19 and V20 and V21 and V22 and V23 and V24 and V25 and V26 and V27 and V28 and V29 and V30 and V31 and V32 and V33 and V34 and V35 and V36 and V37 and V38 and V39 and V40 and V41 and V42 and V43 and V44 and V45 and V46 and V47 and V48 and V49 and V50 and V51 and V52 and V53 and V54 and V55 and V56 and V57 and V58 and V59 and V60 and V61 and V62 and V63 and V64 and V65 and V66 and V67 and V68 and V69 and V70 and V71 and V72 and V73 and V74 and V75 and V76 and V77 and V78 and V79 and V80 and V81 and V82 and V83 and V84 and V85 and V86 and V87 and V88 and V89 and V90 and V91 and V92 and V93 and V94 and V95 and V96 and V97 and V98 and V99 and V100 and V101 and V102 and V103 and V104 and V105 and V106 and V107 and V108 and V109 and V110 and V111 and V112 and V113 and V114 and V115 and V116 and V117 and V118 and V119 and V120 and V121 and V122 and V123 and V124 and V125 and V126 and V127 and V128 and V129 and V130 and V131 and V132 and V133 and V134 and V135 and V136 and V137 and V138 and V139 and V140 and V141 and V142 and V143 and V144 and V145 and V146 and V147 and V148 and V149 and V150 and V151 and V152 and V153 and V154 and V155 and V156 and V157 and V158 and V159 and V160 and V161 and V162 and V163 and V164 and V165 and V166 and V167 and V168 and V169 and V170 and V171 and V172 and V173 and V174 and V175 and V176 and V177 and V178 and V179 and V180 and V181 and V182 and V183 and V184 and V185 and V186 and V187 and V188 and V189 and V190 and V191 and V192 and V193 and V194 and V195 and V196 and V197 and V198 and V199 and V200 and V201 and V202 and V203 and V204 and V205 and V206 and V207 and V208 and V209 and V210 and V211 and V212 and V213 and V214 and V215 and V216 and V217 and V218 and V219 and V220 and V221 and V222 and V223 and V224 and V225 and V226 and V227 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**FOR-LE:**

Minimal Initial Anterior Forces - only score if (V2 R amp <=, V3 R dur <=, V3 R amp <=, V3 R dur <=) are not detected.

V2R+V3R duration - only score if (V2 R amp <=, V2 R dur <=, V3 R amp <=, V3 R dur <=) are not detected.

## DATA TABLE IX

Scoring Table for Sizing and Locating

How to Read the Table:

- 1. A 'Yes' in the 'Amp or Dur Adjustments' column indicates the Nominal Threshold is adjusted for race, age, and gender (see adjustment instructions below).
- 2. Change threshold if a Confounder is detected and a new threshold value is indicated in the Confounder Column.
- 3. An 'X' indicates the criteria is Ignored if the Confounder is True. Example: V1 R/S is not scored if RBBB is detected.
- 4. A '-' indicates no change in criteria if the Confounder is True.
- 5. The {} symbol indicates an OR function. Once a criteria in an OR function is met, score the appropriate points, then skip the subsequent tests in the OR brackets.
- 6. The [] symbol indicates the AND function. All criteria inside the AND function must be met to score points.

Adjustments for Race, Age, and Gender:

Some amplitude and duration criteria thresholds are adjusted for Race, Age and Gender. No criteria adjustments are made to ratio criteria (Ramp/Qamp or Ramp/Samp). Refer to the column labeled "Amp or Dur Adjustment" to determine whether an individual criteria should undergo amplitude or duration adjustments.

Amplitude Adjust:	Age:	Normalize to 50 years. Threshold = Nominal Threshold * (1 + (50-patient age)/100)
	Gender:	Male, No adjustment;
		Female: Reduce Threshold by 20% (multiply threshold by 0.8)
	Race:	Black: Increase threshold by 120%
		All others: No adjustments
Duration Adjust:	Gender:	Male, No adjustment;
		Female: Reduce Threshold 10% (multiply threshold by 0.9)

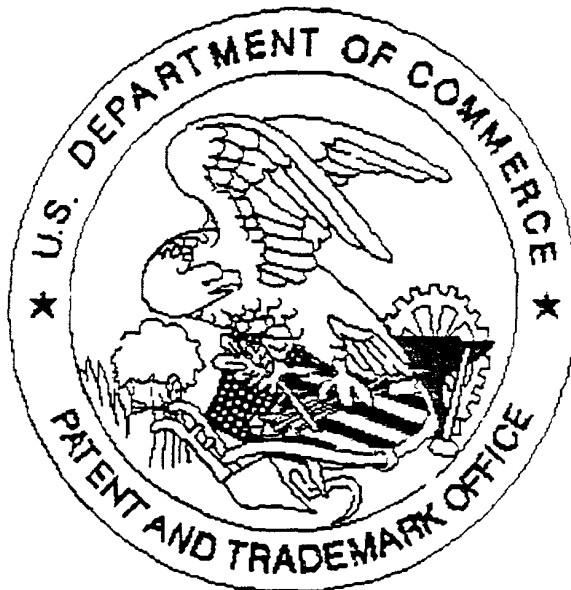
Notes: (Refer to Table, Column heading "Notes"

- 1. Score points for "Prominent Initial Superior Forces" only when none of the following Criteria are met:  
II Q >=; aVF Q >=
- 2. Score one point for any Q unless LVH is present. If LVH detected, then 1 point scored for a Q followed by an R (Q or R only does not score)
- 3. Score 12 lead criteria for 12 lead ECG; Score 15 lead criterion for 15 lead ECG
- 4. Score points for "Prominent Anterior Forces" only when none of the following Criteria are met:  
V1 R/S >=; V1 R dur >=; V1 Q&S <=; V2 R/S >=; V2 R dur >=; V2 Q&S <=; CZ Q dur >=; V8 R amp <=
- 5. Score points for "V2 T amp - V6 T amp >=" only when none of the following Criteria are met:  
V1 R/S >=; V1 R dur >=; V1 Q&S <=; V2 R/S >=; V2 R dur >=; V2 Q&S <=; CZ Q dur >=; V8 R amp <=; Prominent Anterior Forces
- 6. Score points for "Minimal Initial Anterior Forces" only when none of the following Criteria are met:  
V2 Any Q; V2 R dur <=; V2 R amp <=; V3 R amp <=
- 7. Score points for "V2R dur + V3Rdur >=40ms" only when none of the following Criteria are met:  
V2 Any Q; V2 R dur <=; V2 R amp <=; V3 R amp <=; Minimal Initial Anterior Forces

DATA TABLE X

# United States Patent & Trademark Office

Office of Initial Patent Examination -- Scanning Division



Application deficiencies found during scanning:

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for scanning. (Document title)

☒ Scanned copy is best available. Pages of Data Tables  
are very dark